

AUTOMATIC CONTRAST COMPENSATION APPARATUS FOR AN ORGANIC LIGHT-EMITTING DIODE DISPLAY

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ABSTRACT OF THE DISCLOSURE

An automatic contrast compensation apparatus for an
10 OLED display comprises a photo detector, an OLED driver, a safety clamping circuit, and a solar cell. When the intensity of environmental light increased, the photo detector sends a signal to the OLED driver to increase the brightness of the OLED display and for which, the solar cell provides the extra power for
15 the OLED driver to improve the displaying performance of the OLED display in a power-saving manner. The safety clamping circuit prevents the OLED driver from over-current from the solar cell.